

DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

AD-A230 974

ion is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson 2, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503

2. Report Date.
19903. Report Type and Dates Covered.
Abstract

4. Title and Subtitle. Eddy-Mean Energetics in the Gulf Stream During REX: Model/Data Intercomparisons		5. Funding Numbers. Program Element No 61153N Project No 03208 Task No. OGO Accession No DN394458	
6. Author(s). J. Dana Thompson, J. L. Mitchell, D. W. Blake, J. M. Dastugue, and A. Wallcraft			
7. Performing Organization Name(s) and Address(es). Ocean Sciences Directorate Naval Oceanographic and Atmospheric Research Laboratory Stennis Space Center, MS 39529-5004		8. Performing Organization Report Number. AB 90:323:124	
9. Sponsoring/Monitoring Agency Name(s) and Address(es). Naval Oceanographic and Atmospheric Research Laboratory Stennis Space Center, MS 39529-5004		10. Sponsoring/Monitoring Agency Report Number. AB 90:323:124	
11. Supplementary Notes. EOS			
12a. Distribution/Availability Statement. Approved for public release; distribution is unlimited.		<div style="text-align: center;"> DTIC SELECTED S B D JAN 23 1991 </div>	
13. Abstract (Maximum 200 words). A primary goal of REX is the description of the eddy-mean energetics of the Gulf Stream region from Cape Hatteras to the Grand Banks from in-situ, remotely-sensed, and ocean model studies. We have obtained estimates of mean and eddy available potential and kinetic energy using three years of data from the GEOSAT Exact-Repeat Missions (ERM). Temporal mean APE of the total water column is computed from annual and interannual mean deviations in the surface topography relative to precise estimates of the local geoid profile along GEOSAT-ERM collinear ground tracks. We have also examined complete energetics from a primitive equation ocean model at 1/8th degree horizontal resolution in statistical equilibrium for a comparable time span. Finally, we have analyzed data from arrays of inverted echo sounders and bottom pressure gauges deployed during REX. Eddy-mean energetics intercomparison between model and observations, including historical data, are discussed.			
14. Subject Terms. (U) Altimetry; (U) Mesoscale Oceanography; (U) Ocean Forecasting		15. Number of Pages. 1	
		16. Price Code.	
17. Security Classification of Report. Unclassified	18. Security Classification of This Page. Unclassified	19. Security Classification of Abstract. Unclassified	20. Limitation of Abstract. SAR

91 / 23 199